

RUSSELL CHUA KUI HON
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EDUCATION

Nanyang Technological University, Singapore Aug 2017 – Dec 2020
Undergraduate, Bachelor of Engineering Computer Science

- **Bachelor of Engineering (Computer Science)**
- Specialization: Data Science and Artificial Intelligence
- Current Honors (Distinction)
- Achieved Distinction in (1) Advanced Computer Architecture (2) Advance Software Engineering
- Relevant Modules: (1) Data Mining & Analytics (2) Natural Language Processing (3) Computer Security (4) Machine Learning (5) Intelligent Agents

University of California, Los Angeles June 2018 – Aug 2018
Summer Exchange Program

Singapore Polytechnic, Singapore April 2012 – May 2015
Diploma in Infocomm Security Management

PROFESSIONAL EXPERIENCE

Autodesk Singapore Aug 2020 – Dec 2020
Software Development Intern

- Research and develop product analytics and enhance analytics dashboard to drive better product decision. Improve AutoCAD Web App to support PWA.
- Enhancement of AutoCAD web core engine, automating the process of creating cross platform software for desktop, web & mobile.

Accenture Singapore Jun 2020 – Jul 2020
Solution Architect Intern

- Conducting research on software/hardware product upgrades for organization operational enhancements.
- Understanding technological architecture and providing solutions that aligns with overall business needs.
- Development of change request report for new technology upgrades and implementation plans.

GovTech Singapore May 2019 – Aug 2019
Frontend Engineer Intern

- Worked on developing CI/CD pipelines to ensure efficient software testing and project migrations.
- Proposed web architecture and framework. Developed fully functional application with ReactJS, AWS API Gateway and Lambda.
- Docker containerization for high availability deployments and experimented with Kubernetes for application scalability.
- Wrote Cloudformation scripts that improved overall service migration solutions adopted across the application infrastructure teams.

Infocomm Development Authority of Singapore, Aug 2014 - Jul 2015
Government Digital Services, Development Operations
Associate Consultant (Part-Time)

- In charge of providing support for development teams, setting up web application sandboxes for testing.

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- Adhering to Linux system hardening practices, worked on firewall and networking configurations for discretionary access control.
- Integrated security software to generate security reports during code builds to ensure secure coding CI/CD phases.

ACADEMIC/PROFESSIONAL PROJECTS

Final Year Project

Aug 2019 – May 2020

Title: Chatbot Framework for Chatbot Performance Comparison

- Developed a full stack web application with NodeJS and ReactJS that serves as a Chatbot platform for Multi-Chatbot service comparisons.
- Integrated real-time speech transcription for Chatbot interactions.
- Developed own Deep Neural Network based Text Classification model for question and answer matching.
- Docker containerization of application and orchestration with Azure Kubernetes Service.

Advanced Software Engineering Project

Jan 2019 – May 2019

Title: Face Recognition Application for attendance taking

- Built on Face API to extract facial descriptors for matching on specified threshold between NodeJS and Firebase.
- Achieved fast and efficient matching of more than 10 students concurrently.
- Managed to achieve accurate readings and capture attendance with minimal false positives for a class size of 50 students.

SKILLS/INTEREST

Programming Skills: Python, Java, JavaScript, NodeJS, ReactJS, TypeScript, HTML/CSS

Framework and Application: Flask, Express, Docker, Git, Jira, Dialogflow, Firebase, PWA

Web Servers: Apache, Nginx

Cloud: Amazon Web Services, Microsoft Azure, Google Cloud

External Certification: Organizational Systems Wireless Auditor (OSWA)

ACHIEVEMENTS & AWARDS

- 1st place at CPF Hackathon 2020 (11/2020)
Leverage Microsoft Azure services to build a personalized digital experience for CPF members. Built a data driven web application backed by azure's machine learning technology and container orchestration tools conforming to high availability and scalability practices
- 2nd place at Shopee SCSE Hackathon 2020 (03/2020)
Ideated and proposed a mobile learning platform for university students comprising of topic modelling, resource recommendation along and group collaboration. Developed transcription and topic modelling as a Proof of Concept.
- 3rd place at HackNTU hackathon 2019 (03/2019)
Proposed and developed a first responder application that leverages facial recognition technology to quickly identify patient's or victim's medical profile during emergencies.
- Finalist and Best Pitch at Singapore Social Innovation Festival hackathon 2018 (09/2018)
Proposed and developed a platform that simplifies the donation process of unwanted items by connecting donors to suitable charity organizations and upcycling campaigns, reducing inefficiencies and waste.